

# Mistral AI

**Mistral AI SAS** is a French <u>artificial intelligence</u> (AI) <u>startup</u>, headquartered in <u>Paris</u>. It specializes in open-weight large language models (LLMs). [2][3]

## Namesake

The company is named after the mistral, a powerful, cold wind in southern France. [4]

## History

Mistral AI was established in April 2023 by three French AI researchers, <u>Arthur Mensch</u>, Guillaume Lample and Timothée Lacroix. [5]

Mensch, an expert in advanced AI systems, is a former employee of <u>Google DeepMind</u>; Lample and Lacroix, meanwhile, are large-scale AI models specialists who had worked for Meta Platforms. [6]

The trio originally met during their studies at École Polytechnique. [4]

## **Company operation**

## **Philosophy**

Mistral AI emphasizes openness and innovation in the AI field and positions itself as an alternative to proprietary models. [7]

The company has gained prominence as an alternative to proprietary AI systems as it aims to "democratize" AI by focusing on open-source innovation. [8]

## **Funding**

In June 2023, the start-up carried out a first fundraising of €105 million (\$117 million) with investors including the American fund <u>Lightspeed Venture Partners</u>, <u>Eric Schmidt</u>, <u>Xavier Niel</u> and <u>JCDecaux</u>. The valuation is then estimated by the <u>Financial Times</u> at €240 million (\$267 million).

On 10 December 2023, Mistral AI announced that it had raised €385 million (\$428 million) as part of its second fundraising. This round of financing involves the Californian fund <u>Andreessen Horowitz</u>, <u>BNP</u> Paribas and the software publisher Salesforce. [9]

In October 2023, Mistral AI raised €385 million. [10]

By December 2023, it was valued at over \$2 billion.  $\frac{[11][12][13]}{[13]}$ 

On 16 April 2024, reporting revealed that Mistral was in talks to raise  $\[ \in \]$ 500 million, a deal that would more than double its current valuation to at least  $\[ \in \]$ 5 billion. $\[ \in \]$ 

In June 2024, Mistral AI secured a €600 million (\$645 million) funding round, elevating its valuation to €5.8 billion (\$6.2 billion). [15]

Led by venture capital firm <u>General Catalyst</u>, <u>[16]</u> this round resulted in additional contributions from existing investors. The funds aim to support the company's expansion.

Based on <u>valuation</u>, the company is currently in fourth place in the global AI race and in first place outside the <u>San Francisco Bay Area</u>, ahead of several of its peers, such as <u>Cohere</u>, <u>Hugging Face</u>, <u>Inflection</u> and <u>Perplexity</u>. [17]

### **Partnership with Microsoft**

On 26 February 2024, <u>Microsoft</u> announced a new partnership with the company to expand its presence in the artificial intelligence industry.

Under the agreement, Mistral's language models will be available on Microsoft's Azure cloud, while the multilingual conversational assistant *Le Chat* will be launched in the style of ChatGPT. The partnership also included a financial investment of \$16 million by Microsoft in Mistral AL.

## **Services**

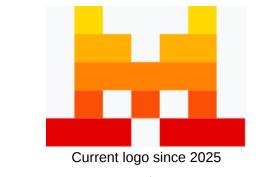
#### Le Chat

On November 19, 2024, the company announced updates for *Le Chat* (pronounced /lə tʃat/ in French). It

added the ability to create images, in partnership with Black Forest Labs, utilizing the Flux Pro model.

Additionally, it introduced the capability to search for information on the internet to provide reliable and up-to-date information.

### **Mistral AI SAS**



Company type Private

Industry Artificial intelligence

Founded 28 April 2023

**Founders** Arthur Mensch

Guillaume Lample Timothée Lacroix

**Headquarters** Paris, France

**Key people** Arthur Mensch (CEO)

Guillaume Lample (Chief

Scientist)

Timothée Lacroix (CTO)

**Products** Mistral 7B

Mixtral 8x7B Mistral Medium

Mistral Large

Mistral Large 2 (123B) Mixtral 8x22B

Codestral 22B

Codestral Mamba (7B)

Mathstral (7B)
Mistral NeMo 12B
Mistral Embed
Mistral Small 3.1

Mistral Medium 3 150 (2025)<sup>[1]</sup>

Number of employees

Website

mistral.ai (https://mistral.

<u>ai/)</u>

Furthermore, it launched the Canvas system, a collaborative interface where the AI generates code and the user can modify it.

### Mobile app

On February 6, 2025, Mistral AI released its AI assistant, *Le Chat*, on <u>iOS</u> and <u>Android</u>, making its language models accessible on mobile devices.

*Le Chat* offers features including web search, image generation, and real-time updates.

Mistral AI also introduced a Pro subscription tier, priced at \$14.99 per month, which provides access to more advanced models, unlimited messaging, and web browsing. [20]

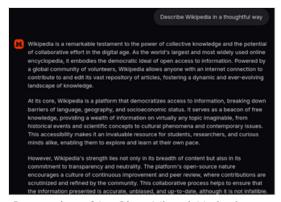
### **Models**

The following table lists the main model versions of Mistral, describing the significant changes included with each version: [21]



Example of an image generated with *Le*Chat, the prompt is Generate an image you feel represents yourself,

Mistral AI



Screenshot of *Le Chat*, Mistral AI chatbot, describing Wikipedia in a thoughtful way

Name	Release date	Status	Number of parameters (billion)	License	Notes
Mistral Medium 3 07.05	May 2025	Active	?	Proprietary	Enterprise model available for on- premise deployment. <sup>[22]</sup>
Mistral Small 3.1 25.03	March 2025	Active	24	Apache- 2.0	A new leader in the small models category with image understanding capabilities, with the lastest version v3.1 released March 2025. [23][24]
Mistral Small 3 25.01	January 2025	?	24	Apache- 2.0	Upon its release in January 2025, Mistral Small 3 is benchmarked as the leader in the "small" models category below 70B, featuring 24B parameters and capabilities comparable to those of larger models. [25][23]
Mistral Large 2 24.11	November 2024	Active	123	Mistral Research License	[23]
Pixtral Large 24.11	November 2024	?	124	Mistral Research License	On November 19, 2024, the company introduced Pixtral Large, an improvement over Pixtral 12B, integrating a 1-billion-parameter visual encoder coupled with Mistral Large 2. This model has also been enhanced, particularly for long contexts and function calls. [26][23]
Ministral 8B <i>24.10</i>	October 2024	?	8	Mistral Research License	[23]
Ministral 3B <i>24.10</i>	October 2024	?	3	Proprietary	[23]
Pixtral 24.09	September 2024	?	12	Apache- 2.0	[23]
Mistral Large 2 24.07	July 2024	?	123	Mistral Research License	Mistral Large 2 was announced on July 24, 2024, and released on Hugging Face. It is available for free with a Mistral Research Licence, and with a commercial licence for commercial purposes. Mistral AI claims that it is fluent in dozens of languages, including many programming languages. Unlike the previous Mistral Large, this version was released with open weights. The model has 123 billion parameters and a context length of 128,000 tokens. [23]
Codestral Mamba 7B	July 2024	?	7	Apache- 2.0	Codestral Mamba is based on the Mamba 2 architecture, which allows it to generate responses even with longer input. [27] Unlike Codestral, it was released under the Apache 2.0 license. While previous releases often included both the base model and the instruct version, only the instruct version of Codestral Mamba was released. [28][23]

Mathstral 7B	July 2024	?	7	Apache- 2.0	Mathstral 7B is a model with 7 billion parameters released by Mistral AI on July 16, 2024, focusing on STEM subjects. [29] The model was produced in collaboration with Project Numina, [27] and was released under the Apache 2.0 License with a context length of 32k tokens. [29][23]
Codestral 22B	May 2024	?	22	Mistral Non- Production License	Codestral is Mistral's first code-focused open weight model which was launched on May 29, 2024. Mistral claims Codestral is fluent in more than 80 programming languages <sup>[30]</sup> Codestral has its own license which forbids the usage of Codestral for commercial purposes. <sup>[31][23]</sup>
Mixtral 8x22B	April 2024	?	22	Apache- 2.0	Similar to Mistral's previous open models, Mixtral 8x22B was released via a BitTorrent link on Twitter on April 10, 2024, [32] with a release on Hugging Face soon after. [33] The model uses an architecture similar to that of Mistral 8x7B, but with each expert having 22 billion parameters instead of 7. In total, the model contains 141 billion parameters, as some parameters are shared among the experts, but offering higher performance. [33][34][23]
Mistral Small	February 2024	?	?	Proprietary	Like the Large model, Mistral Small was launched on February 26, 2024. [23]
Mistral Large 24.02	February 2024	?	?	Proprietary	Mistral Large was launched on February 26, 2024, and Mistral claims it is second in the world only to OpenAl's GPT-4. It is fluent in English, French, Spanish, German, and Italian, with Mistral claiming understanding of both grammar and cultural context, and provides coding capabilities. As of early 2024, it is Mistral's flagship AI. [35] It is also available on Microsoft Azure. [36][23]
Mistral Medium	December 2023	?	?	Proprietary	Mistral Medium is trained in various languages including English, French, Italian, German, Spanish and code with a score of 8.6 on MT-Bench. [37] It is ranked in performance above Claude and below GPT-4 on the LMSys ELO Arena benchmark. [38] The number of parameters, and architecture of Mistral Medium is not known as Mistral has not published public information about it. [23]
Mixtral 8x7B	December 2023	?	46.7	Apache- 2.0	Much like Mistral's first model, Mixtral 8x7B was released via a BitTorrent link posted on Twitter on December 9, 2023, [2] and later Hugging Face and a blog post were released two days later. [39] Unlike the previous Mistral model, Mixtral 8x7B uses a sparse mixture of experts architecture. The model has 8 distinct groups of

					"experts", giving the model a total of 46.7B usable parameters. [40][41] Each single token can only use 12.9B parameters, therefore giving the speed and cost that a 12.9B parameter model would incur. [39] A version trained to follow instructions called "Mixtral 8x7B Instruct" is also offered. [39][23]
Mistral 7B	September 2023	?	7.3	Apache- 2.0	Mistral 7B is a 7.3B parameter language model using the transformers architecture. It was officially released on September 27, 2023, via a BitTorrent magnet link, [42] and Hugging Face [43] under the Apache 2.0 license. Mistral 7B employs grouped-query attention (GQA), which is a variant of the standard attention mechanism. This architecture optimizes performance by calculating attention within specific groups of hidden states rather than across all hidden states, improving efficiency and scalability. [44] Both a base model and "instruct" model were released with the latter receiving additional tuning to follow chat-style prompts. The fine-tuned model is only intended for demonstration purposes, and does not have guardrails or moderation built-in. [45][23]

### **Performance**

### Mistral 7B

Mistral AI claimed in the Mistral 7B release blog post that the model outperforms  $\underline{\text{LLaMA 2}}$  13B on all benchmarks tested, and is on par with LLaMA 34B on many benchmarks tested, despite having only 7 billion parameters, a small size compared to its competitors.

#### Mixtral 8x7B

Mistral AI's testing in 2023 shows the model beats both LLaMA 70B, and  $\underline{GPT-3.5}$  in most benchmarks.  $\underline{^{[46]}}$ 

In March 2024, a research conducted by Patronus AI comparing performance of LLMs on a 100-question test with prompts to generate text from books protected under <u>U.S. copyright law</u> found that <u>Open AI</u>'s <u>GPT-4</u>, Mixtral, <u>Meta AI</u>'s <u>LLaMA-2</u>, and <u>Anthropic</u>'s <u>Claude 2</u> generated copyrighted text verbatim in 44%, 22%, 10%, and 8% of responses respectively. [47][48]

## Mistral Large 2

According to Mistral AI, Large 2's performance in benchmarks is competitive with <u>Llama 3.1 405B</u>, particularly in programming-related tasks. [49][50]

### Codestral 22B

As of its release date, Codestral 22B surpasses Meta's Llama3 70B and DeepSeek Coder 33B (78.2% - 91.6%), another code-focused model on the HumanEval FIM benchmark. [51]

### **Mathstral 7B**

Mathstral 7B achieved a score of 56.6% on the MATH benchmark and 63.47% on the MMLU benchmark. [29]

### **Mistral Small 3.1**

On 17 March 2025, Mistral released Mistral Small 3.1 as a smaller, more efficient model.

Building on Mistral Small 3, this new model comes with improved text performance, multimodal understanding, and an expanded context window of up to 128k tokens. The model outperforms comparable models like Gemma 3 and GPT-40 Mini, while delivering inference speeds of 150 tokens per second. Mistral Small 3.1 is released under an Apache 2.0 license. Mistral Small 3.1 is the first open source model that not only meets, but in fact surpasses, the performance of leading small proprietary models across handling text, understanding multimodal inputs, supporting multiple languages, and managing long contexts.

Mistral Small 3.1 used across various enterprise and consumer applications that require multimodal understanding, such as document verification, diagnostics, on-device image processing, visual inspection for quality checks, object detection in security systems, image-based customer support, and general purpose assistance. [52]

#### **Mistral Medium 3**

On 7 May 2025, Mistral AI released Mistral Medium 3. Mistral Medium 3 delivers high performance at 8X lower cost with radically simplified enterprise deployments.

Mistral Medium 3 delivers frontier performance while being an order of magnitude less expensive. For instance, the model performs at or above 90% of <u>Claude Sonnet 3.7</u> on benchmarks across the board at a significantly lower cost (\$0.4 input / \$2 output per M token). On performance, Mistral Medium 3 also surpasses leading open models such as <u>Llama 4 Maverick</u> and enterprise models such as <u>Cohere Command A</u>. On pricing, the model beats cost leaders such as <u>DeepSeek V3</u>, both in API and self-deployed systems. Additionally, Mistral Medium 3 can also be deployed on any cloud, including self-hosted environments of four GPUs and above.

Mistral Medium 3 stands out from other <u>SOTA</u> models in its ability to adapt to enterprise contexts. Mistral Medium 3 offers a path to comprehensively integrate intelligence into enterprise systems. With the help of Mistral's applied AI solutions, the model can be continuously pretrained, fully fine tuned, and blended into enterprise knowledge bases, making it a high-fidelity solution for domain-specific training, continuous learning, and adaptive workflows. [53]

## **Usage**

According to Mistral AI, [54] the company's products have been used by :

- 1. BNP Paribas
- 2. AXA
- 3. Laboratoires Pierre Fabre
- 4. CMA CGM
- 5. Zalando
- 6. Mirakl
- 7. France Travail

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# **External links**

Official website (https://mistral.ai/)

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